

Write the slope-intercept form of the equation of the line through the given points.

1) through: $(0, 3)$ and $(-4, -1)$

$$y = x + 3$$

2) through: $(0, 2)$ and $(1, -3)$

$$y = -5x + 2$$

3) through: $(-4, 0)$ and $(1, 5)$

$$y = x + 4$$

4) through: $(-4, -2)$ and $(-3, 5)$

$$y = 7x + 26$$

5) through: $(5, 4)$ and $(-4, 3)$

$$y = \frac{1}{9}x + \frac{31}{9}$$

6) through: $(-4, 2)$ and $(0, -5)$

$$y = -\frac{7}{4}x - 5$$